PATENT COOPERATION TREATY

REC'D 06 APR 2005

From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT
see form PCT/ISA/220	2/6	INTERNATION	TEN OPINION OF THE NAL SEARCHING AUTHORITY PCT Rule 43 <i>bis</i> .1)
		Date of mailing (day/month/year) see	e form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER A See paragraph 2 belo	
International application No. PCT/US2004/038438	International filing date (day/month/year) 16.11.2004		Priority date (day/month/year) 17.11.2003
International Patent Classification (IPC) or C08F8/42, C08F8/40, C09D11/02	both national classification	and IPC	
Applicant SUN CHEMICAL CORPORATION	<u> </u>		

	This opinion contains indications relating to the following items:			
	Box No. I	Basis of the opinion		
	☐ Box No. II	Priority		
	☐ Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability		
	☐ Box No. IV	Lack of unity of invention		
	⊠ Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
	🛛 Box No. VI	Certain documents cited		
	☐ Box No. VII	Certain defects in the international application		
	☐ Box No. VIII	Certain observations on the international application		
2.	FURTHER ACTION			
	If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.			
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date whichever expires later.			

Name and mailing address of the ISA:

Authorized Officer

Telephone No. +49 89 2399-



3.

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.



- International application No. PCT/US2004/038438

	Box No. I Basis of the opinion				
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.				
	This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:				
	☐ a sequence listing				
	□ table(s) related to the sequence listing				
	b. format of material:				
	☐ in written format				
	☐ in computer readable form				
	c. time of filling/furnishing:				
	☐ contained in the international application as filed.				
	☐ filed together with the international application in computer readable form.				
	☐ furnished subsequently to this Authority for the purposes of search.				
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Additional comments:				

International application No. PCT/US2004/038438

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-62

No: Claims

Inventive step (IS)

Yes: Claims

1-62

No: Claims

Industrial applicability (IA)

Yes: Claims

1-62

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

1. Certain published documents (Rules 43*bis*.1 and 70.10)

and/or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Re Item V.

1 Reference is made to the following documents cited in the International Search Report:

D1: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08, 30 June 1998 (1998-06-

30) & JP-A-10 067959

D2: US-A-4 705 568 D3: US-A-4 659 848 D4: EP-A-0 147 642

None among the documents D1 to D4 discloses a polymer complex comprising all the mandatory features as specified in independent claim 1 of the present application.

Combinations of the teaching derivable from D1 to D4 would not lead either, in an obvious manner, to the preparation of the claimed polymer complex.

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT) and considered as involving an inventive step (Article 33(3) PCT).

Claims 2-12 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Moreover, since each of the independent claims 13, 26, 38 and 51 requires the presence or use of the polymer complex as specified in claim 1, said independent claims 13, 26, 38, 51 and the claims 14-25, 27-37, 39-50 and 52 to 62 which are respectively dependent therefrom meet also the requirements of the PCT with respect to novelty and inventive step.

3. The claimed subject-matter is industrially applicable (Art. 33(4) PCT).

PATENT COOPERATION TREATY

REC'D 06:APR 2005

From the INTERNATIONAL SEARCHING AUTHORITY

То:			PCT
see form PCT/ISA/220	2/6	INTERNATION	EN OPINION OF THE AL SEARCHING AUTHORITY CT Rule 43 <i>bis</i> .1)
		Date of mailing (day/month/year) see	form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER ACTION See paragraph 2 below	
International application No. International filing date (PCT/US2004/038438 16.11.2004		(day/month/year)	Priority date (day/month/year) 17.11.2003
International Patent Classification (IPC) or both national classification and IPC C08F8/42, C08F8/40, C09D11/02			
Applicant SUN CHEMICAL CORPORATION	1		
This opinion contains indicati	ions relating to the fo	llowing items:	
☐ Box No. I Basis of the opinion			

☑ Box No. II Basis of the opinion
 ☐ Box No. II Priority
 ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 ☐ Box No. IV Lack of unity of invention
 ☐ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 ☑ Box No. VI Certain documents cited
 ☐ Box No. VII Certain defects in the international application

☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Authorized Officer

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d

Fax: +49 89 2399 - 4465

Telephone No. +49 89 2399-



- International application No. PCT/US2004/038438

	Box No. I	Basis of the opinion			
1.	. With regard the language	to the language, this opinion has been established on the basis of the international application in e in which it was filed, unless otherwise indicated under this item.			
	languag	inion has been established on the basis of a translation from the original language into the following je, which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).			
2.	. With regard necessary to	to any nucleotide and/or amino acid sequence disclosed in the international application and othe claimed invention, this opinion has been established on the basis of:			
	a. type of material:				
	□ a se	quence listing			
	☐ table	e(s) related to the sequence listing			
	b. format of material:				
	. 🔲 in`w	ritten format			
	☐ in co	omputer readable form			
	c. time of fili	ng/iurnishing:			
	☐ cont	ained in the international application as filed.			
	☐ filed	together with the international application in computer readable form.			
	☐ furni	shed subsequently to this Authority for the purposes of search.			
3.	has bee	ion, in the case that more than one version or copy of a sequence listing and/or table relating thereto en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as riate, were furnished.			
,	Additional comments:				

International application No. PCT/US2004/038438

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-62

No: Claims

Inventive step (IS)

Yes: Claims

1-62

No: Claims

Industrial applicability (IA)

Yes: Claims

1-62

No: Claims

2. Citations and explanations

see separate sheet

Box No. VI Certain documents cited

 Certain published documents (Rules 43bis.1 and 70.10) and /or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Re Item V.

1 Reference is made to the following documents cited in the International Search Report:

D1: PATENT ABSTRACTS OF JAPAN vol. 1998, no. 08, 30 June 1998 (1998-06-

30) & JP-A-10 067959

D2: US-A-4 705 568 D3: US-A-4 659 848 D4: EP-A-0 147 642

None among the documents D1 to D4 discloses a polymer complex comprising all the mandatory features as specified in independent claim 1 of the present application.

Combinations of the teaching derivable from D1 to D4 would not lead either, in an obvious manner, to the preparation of the claimed polymer complex.

The subject-matter of claim 1 is therefore novel (Article 33(2) PCT) and considered as involving an inventive step (Article 33(3) PCT).

Claims 2-12 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Moreover, since each of the independent claims 13, 26, 38 and 51 requires the presence or use of the polymer complex as specified in claim 1, said independent claims 13, 26, 38, 51 and the claims 14-25, 27-37, 39-50 and 52 to 62 which are respectively dependent therefrom meet also the requirements of the PCT with respect to novelty and inventive step.

The claimed subject-matter is industrially applicable (Art. 33(4) PCT).